CLAIM 1:

A structure for harnessing sun generated air currents to drive a rotor mechanism comprising:

(a) a housing member having a frontal surface and a rear surface, said housing member having an internal chamber within said housing member, with said housing member having a translucent cover on said frontal surface to admit sunlight into said chamber, and wherein said housing member has an air inlet opening and an air outlet opening, said inlet opening and said air outlet opening extending between said internal chamber and outside said housing;

(b) rotor means affixed adjacent to said air outlet opening to receive the air flow from said air outlet opening from said chamber.

CLAIM 2:

A structure for harnessing air currents to drive a rotor mechanism comprising:

(a) a housing member having an outer surface, said housing member having an internal chamber with said housing member having a frontal wall comprising the enclosure to said chamber, with said frontal wall having a portion thereof which is translucent for admission of sunlight into said chamber, said housing member having an air inlet opening leading from spatial areas outside said housing member to spatial areas inside said chamber of said housing member;

(b) air outlet means on said housing member, said air outlet means extending from areas inside said chamber to spatial areas outside said chamber;

(c) air-driven rotor member having a central rotatable axle affixed to a position adjacent said air outlet means, said rotor-driven member having a rotor blade affixed to a portion of said rotatable axle for receiving incoming wind and wherein said rotor means has additional rotor blades to receive the impact of air escaping from said chamber in said housing.

CLAIM 3:

A combined solar powered and wind powered rotor mechanism comprising

(a) a housing member, said housing member having an internal longitudinally extending chamber, disposed with side said housing member, and wherein said housing member has an air inlet opening therein which extends from spatial areas outside said housing into said chamber, and wherein said housing has an air outlet opening to vent air from said chamber;

(b) a rotor mechanism having a plurality of vane members to receive the impact of air vented from said air outlet opening and drive said rotor mechanism.

CLAIM 4:

The subject invention is a rotor apparatus structured to be driven by wind force and solar energy comprising:

(a) a housing member with an internal chamber with an upper portion and a lower portion, said housing member having a translucent front surface portion on the outside of solar chamber and a solar absorptive back surface portion with a solar energy collector chamber within said housing, with said chamber being disposed between such front surface portion and such back surface portion, said housing member having an air intake opening on the lower portion of said housing, which air intake opening leads to the solar energy collection chamber, said housing having an air outlet opening that emits passing air from the solar energy collection chamber, and further comprising;

(b) rotatable shaft means rotatably mounted through said housing member with a portion of such shaft projecting out from the front of said housing and a portion of said shaft passing through the solar absorption chamber, and further comprising;

(c) wind driven rotor means disposed concentricity on that portion of the rotatable shaft that projects frontally of the front surface, and further comprising;

(d) air driven means disposed on that portion of the rotor shaft in the chamber.